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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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| Applicant's or agent's file reference BP107605/TN | FOR FURTHER ACTION See Form PCT/IPEA/416 | |
| International application No. PCT/FI 2003/000939 | International filing date (day/month/year) 10-12-2003 | Priority date (day/month/year) 11-12-2002 |
| International Patent Classification (IPC) or national classification and IPC H04M 3/533, H04L 12/58 H04Q 7/38 | | |
| Applicant Nokia Corporation et al | | |

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

a. ☒ (sent to the applicant and to the International Bureau) a total of 3 sheets, as follows:

☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

| | | |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the report |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

| | |
|---|--|
| Date of submission of the demand 23-06-2004 | Date of completion of this report 27-04-2005 |
| Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88 | Authorized officer Elisabet Åselius/MN Telephone No. +46 8 782 25 00 |

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI 2003/000939

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1 - 9 as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☒ the claims:
- pages _____ as originally filed/furnished
- pages* _____ as amended (together with any statement) under Article 19
- pages* 10 - 12 received by this Authority on 11 - 11 - 2004
- pages* _____ received by this Authority on _____
- ☒ the drawings:
- pages 1 - 2 as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to the sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI 2003/000939

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | | |
|-------------------------------|--------|-------------|-----|
| Novelty (N) | Claims | <u>1-15</u> | YES |
| | Claims | | NO |
| Inventive step (IS) | Claims | <u>1-15</u> | YES |
| | Claims | | NO |
| Industrial applicability (IA) | Claims | <u>1-15</u> | YES |
| | Claims | | NO |

2. Citations and explanations (Rule 70.7)

The claimed invention relates to a method for realizing a voice message in a simple and economic manner. A voice message for the subscriber, who was not reached, is transmitted as a multimedia message.

Documents cited in the International Search Report:

D1: WO 0135622 A1
D2: EP 1113631 A2
D3: US 2001053687 A1
D4: JP 2002335299 PAJ
D5: EP 1255416 A1
D6: WO 0030374 A2
D7: WO 0133781 A1

D2 reveals a request for establishing a connection, (fig.7a). As a response to a failed attempt (703) for establishing a connection, a messaging service is automatically started (706). A voice message may be created and recorded as a sound clip of a multimedia message and transmitted to the receiver, (paragraphs 0110-0111 and 0128).

The message may contain text, pictures or video, (fig.7b; 711). The multimedia message may be automatically transmitted to the receiver, (fig.7b; 713, 714).

D4 relates to a communication system for multimedia information that can retransmit even on the occurrence of transmission interruption due to channel trouble or the like. D5 discloses a method for storing and accessing multimedia messaging service information, while D6 reveals a method for forming and communicating among a group of mobile terminals. D7 deals with a method for implementing a multimedia messaging service. .../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: BOX V

D1, D3 and D4 do not disclose a failed attempt for establishing a connection to another subscriber.

The claimed invention differs from the cited documents by the fact that the multimedia messaging service (MMS) application is started and a recording function of a sound clip is activated in the calling device automatically as a response to a failed attempt for establishing a connection. The multimedia response message is stored in a volatile random access memory of the device in question.

Thus, the claimed invention fulfils the requirements of novelty, inventive step and industrial applicability.

Claims

1. A method for transmitting a multimedia message, **characterized** in that the method includes steps of:

- 5 - making a request in a device for establishing a connection with a receiver (101),
- as a response to a failed attempt for establishing a connection (102), automatically starting a multimedia messaging service (MMS) of the device and activating a recording function of a sound clip (103),
- 10 - recording a voice message as a sound clip of a multimedia message (104) in a volatile random access memory of the device, and
- transmitting the created multimedia message to the receiver (107).

15 2. A method according to claim 1, **characterized** in that it includes a step of including an identifier in the multimedia message by which identifier the multimedia message can be identified as created automatically as a response to a failed attempt for establishing a connection.

3. A method according to claim 1, **characterized** in that it includes a step of attaching (106) in the multimedia message, in addition to the sound clip, one of the following: text, picture, video image or a combination of these.

20 4. A method according to claim 1, **characterized** in that the multimedia message containing the recorded sound clip is automatically transmitted to the receiver.

5. A method according to claim 1, **characterized** in that the multimedia message containing the recorded sound clip is transmitted to the receiver as a response to confirming the message sending function (105).

25 6. A method according to claim 1, **characterized** in that the multimedia message is transmitted to the number to which the original request for establishing connection was made.

7. A method according to claim 1, **characterized** in that the multimedia message is transmitted to the voicemail box of the number to the which original request for establishing a connection was made.

8. A device for transmitting a multimedia message, **characterized** in that said device comprises

- means for making a request for establishing a connection targeting to a receiver (201, 202, 205, 207, 208),
- 5 - means for starting a multimedia messaging service (MMS) (204) of the device and for activating a recording function of a sound clip (204c) of said service automatically as a response to a failed attempt for establishing a connection,
- 10 - means for recording a voice message as a sound clip of a multimedia message (201, 204, 204c, 210) in a volatile random access memory of the device, and
- means for transmitting the created multimedia message to the receiver (201, 205, 207, 208).

9. A device according to claim 8, **characterized** in that the device includes
15 means for adding to the multimedia message an identifier indicating that the multimedia message was created automatically.

10. A device according to claim 8, **characterized** in that the device also includes means for attaching to the multimedia message, in addition to the sound clip (204c), text (204b), picture (204a), video image (204d) or a combination of these.

20 11. A device according to claim 8, **characterized** in that it includes means for transmitting the created multimedia message automatically to the number of the receiver to which the original request for establishing a connection was made.

12. A device according to claim 8, **characterized** in that it includes means for
25 transmitting the created multimedia message as a response to confirming the multimedia message transmission function.

13. A device according to claim 8, **characterized** in that it includes means for transmitting the multimedia message to the number to which the original request for establishing a connection was made.

30 14. A device according to claim 8, **characterized** in that it includes means for transmitting the multimedia message to a voicemail box connected to the number to which the original request for establishing a connection was made.

15. A device according to claim 8, characterized in that said means are programmatic means.

TENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|-------------------------------------|-----------|---------------------|--------------------------|------------|----------|--------------------------|-------------|--|--------------------------|------------|----------------------------|-------------------------------------|-----------|---|--------------------------|------------|-------------------------|--------------------------|-------------|--|--------------------------|--------------|---|
| Applicant's or agent's file reference BP107605/TN | FOR FURTHER ACTION See Form PCT/IPEA/416 | | | | | | | | | | | | | | | | | | | | | | | | | |
| International application No. PCT/FI 2003/000939 | International filing date (<i>day/month/year</i>) 10-12-2003 | Priority date (<i>day/month/year</i>) 11-12-2002 | | | | | | | | | | | | | | | | | | | | | | | | |
| International Patent Classification (IPC) or national classification and IPC H04M 3/533, H04L 12/58 H04Q 7/38 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Applicant Nokia Corporation et al | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p style="margin-left: 20px;">a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of <u>3</u> sheets, as follows:</p> <div style="margin-left: 40px;"> <input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. </div> <p style="margin-left: 20px;">b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>4. This report contains indications relating to the following items:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 10%;"><input checked="" type="checkbox"/></td> <td style="width: 20%;">Box No. I</td> <td>Basis of the report</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table> | | | <input checked="" type="checkbox"/> | Box No. I | Basis of the report | <input type="checkbox"/> | Box No. II | Priority | <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability | <input type="checkbox"/> | Box No. IV | Lack of unity of invention | <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | <input type="checkbox"/> | Box No. VI | Certain documents cited | <input type="checkbox"/> | Box No. VII | Certain defects in the international application | <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |
| <input checked="" type="checkbox"/> | Box No. I | Basis of the report | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | Box No. II | Priority | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | Box No. VI | Certain documents cited | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application | | | | | | | | | | | | | | | | | | | | | | | | |
| Date of submission of the demand 23-06-2004 | Date of completion of this report 27-04-2005 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88 | Authorized officer Elisabet Åselius/MN Telephone No. +46 8 782 25 00 | | | | | | | | | | | | | | | | | | | | | | | | | |

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI 2003/000939

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

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☐ publication of the international application (under Rule 12.4)
☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☐ the international application as originally filed/furnished

☒ the description:

pages 1 - 9 as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☒ the claims:

pages _____ as originally filed/furnished

pages* _____ as amended (together with any statement) under Article 19

pages* 10 - 12 received by this Authority on 11 - 11 - 2004

pages* _____ received by this Authority on _____

☒ the drawings:

pages 1 - 2 as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
☐ the claims, Nos. _____
☐ the drawings, sheets/figs _____
☐ the sequence listing (*specify*): _____
☐ any table(s) related to the sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

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☐ the claims, Nos. _____
☐ the drawings, sheets/figs _____
☐ the sequence listing (*specify*): _____
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI 2003/000939

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | | |
|-------------------------------|--------|-------------|-----|
| Novelty (N) | Claims | <u>1-15</u> | YES |
| | Claims | | NO |
| Inventive step (IS) | Claims | <u>1-15</u> | YES |
| | Claims | | NO |
| Industrial applicability (IA) | Claims | <u>1-15</u> | YES |
| | Claims | | NO |

2. Citations and explanations (Rule 70.7)

The claimed invention relates to a method for realizing a voice message in a simple and economic manner. A voice message for the subscriber, who was not reached, is transmitted as a multimedia message.

Documents cited in the International Search Report:

D1: WO 0135622 A1
D2: EP 1113631 A2
D3: US 2001053687 A1
D4: JP 2002335299 PAJ
D5: EP 1255416 A1
D6: WO 0030374 A2
D7: WO 0133781 A1

D2 reveals a request for establishing a connection, (fig.7a). As a response to a failed attempt (703) for establishing a connection, a messaging service is automatically started (706). A voice message may be created and recorded as a sound clip of a multimedia message and transmitted to the receiver, (paragraphs 0110-0111 and 0128).

The message may contain text, pictures or video, (fig.7b; 711). The multimedia message may be automatically transmitted to the receiver, (fig.7b; 713, 714).

D4 relates to a communication system for multimedia information that can retransmit even on the occurrence of transmission interruption due to channel trouble or the like. D5 discloses a method for storing and accessing multimedia messaging service information, while D6 reveals a method for forming and communicating among a group of mobile terminals. D7 deals with a method for implementing a multimedia messaging service. .../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: BOX V

D1, D3 and D4 do not disclose a failed attempt for establishing a connection to another subscriber.

The claimed invention differs from the cited documents by the fact that the multimedia messaging service (MMS) application is started and a recording function of a sound clip is activated in the calling device automatically as a response to a failed attempt for establishing a connection. The multimedia response message is stored in a volatile random access memory of the device in question.

Thus, the claimed invention fulfils the requirements of novelty, inventive step and industrial applicability.

Claims

1. A method for transmitting a multimedia message, **characterized** in that the method includes steps of:

- 5 - making a request in a device for establishing a connection with a receiver (101),
- as a response to a failed attempt for establishing a connection (102), automatically starting a multimedia messaging service (MMS) of the device and activating a recording function of a sound clip (103),
- 10 - recording a voice message as a sound clip of a multimedia message (104) in a volatile random access memory of the device, and
- transmitting the created multimedia message to the receiver (107).

15 2. A method according to claim 1, **characterized** in that it includes a step of including an identifier in the multimedia message by which identifier the multimedia message can be identified as created automatically as a response to a failed attempt for establishing a connection.

3. A method according to claim 1, **characterized** in that it includes a step of attaching (106) in the multimedia message, in addition to the sound clip, one of the following: text, picture, video image or a combination of these.

20 4. A method according to claim 1, **characterized** in that the multimedia message containing the recorded sound clip is automatically transmitted to the receiver.

5. A method according to claim 1, **characterized** in that the multimedia message containing the recorded sound clip is transmitted to the receiver as a response to confirming the message sending function (105).

25 6. A method according to claim 1, **characterized** in that the multimedia message is transmitted to the number to which the original request for establishing connection was made.

7. A method according to claim 1, **characterized** in that the multimedia message is transmitted to the voicemail box of the number to the which original request for establishing a connection was made.

8. A device for transmitting a multimedia message, **characterized** in that said device comprises

- means for making a request for establishing a connection targeting to a receiver (201, 202, 205, 207, 208),
- 5 - means for starting a multimedia messaging service (MMS) (204) of the device and for activating a recording function of a sound clip (204c) of said service automatically as a response to a failed attempt for establishing a connection,
- 10 - means for recording a voice message as a sound clip of a multimedia message (201, 204, 204c, 210) in a volatile random access memory of the device, and
- means for transmitting the created multimedia message to the receiver (201, 205, 207, 208).

15 9. A device according to claim 8, **characterized** in that the device includes means for adding to the multimedia message an identifier indicating that the multimedia message was created automatically.

10. A device according to claim 8, **characterized** in that the device also includes means for attaching to the multimedia message, in addition to the sound clip (204c), text (204b), picture (204a), video image (204d) or a combination of these.

20 11. A device according to claim 8, **characterized** in that it includes means for transmitting the created multimedia message automatically to the number of the receiver to which the original request for establishing a connection was made.

25 12. A device according to claim 8, **characterized** in that it includes means for transmitting the created multimedia message as a response to confirming the multimedia message transmission function.

13. A device according to claim 8, **characterized** in that it includes means for transmitting the multimedia message to the number to which the original request for establishing a connection was made.

30 14. A device according to claim 8, **characterized** in that it includes means for transmitting the multimedia message to a voicemail box connected to the number to which the original request for establishing a connection was made.

15. A device according to claim 8, characterized in that said means are programmatic means.